Arkansas

Statewide Communication Interoperability Plan (SCIP)

June 2014

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EXECUTIVE SUMMARY

The Arkansas Statewide Communication Interoperability Plan (SCIP) is a stakeholder-driven, multi-jurisdictional, and multi-disciplinary statewide strategic plan to enhance interoperable and emergency communications. The SCIP is a critical mid-range (three to five years) strategic planning tool to help Arkansas prioritize resources, strengthen governance, identify future investments, and address interoperability gaps.

The purpose of the Arkansas SCIP is to:

- Provide the strategic direction and alignment for those responsible for interoperable and emergency communications at the State, regional, local, and tribal levels.
- Explain to leadership and elected officials the vision for interoperable and emergency communications and demonstrate the need for funding.
- Serve as the operational blueprint for the conceptualization, procurement, implementation, and usage of interoperable communications by Arkansas's public safety agencies and nongovernmental/private organizations.

The following are Arkansas's Vision and Mission for improving emergency communications operability, interoperability, and continuity of communications statewide.

Vision: The State of Arkansas will lead the Nation in establishing the ability for public safety stakeholders, across disciplines and jurisdictions, to exchange information seamlessly, as authorized, on demand and in real-time in order to protect lives and property.

Mission: The Arkansas Interoperable Communications Committee (AICC) will work collaboratively with the emergency response community across disciplines, levels of government, jurisdictions (including bordering States) and organizations to achieve the Arkansas interoperability vision. To do this, the AICC will coordinate and provide resources to help the emergency response community pursue the goals, objectives and strategic initiatives in the Statewide Communication Interoperability Plan (SCIP).

The following strategic goals represent the priorities for delivering Arkansas's vision for interoperable and emergency communications.

- Governance –
    - Provide public safety personnel with the existing policies and procedures that guide the use of interoperable and emergency communications
    - Align and coordinate State and Local Implementation Grant Program (SLIGP) project activities with Nationwide Public Safety Broadband Network (NPSBN) requirements
    - Develop and utilize the Rural Leadership Council (RLC)

  - Continue to ensure effective communication with elected officials
  - Ensure the continuity of the interoperable communications program
- Standard Operating Procedures (SOPs) –
  - Create SOPs for the use of interoperability resources
  - Publish the Arkansas Field Operations Guide (FOG)
- Technology –
  - Continue deployment of inter- and intra-State interoperability resources
  - Ensure future planning of infrastructure serves as dual purpose for the Arkansas Wireless Interoperability Network (AWIN) and NPSBN
  - Ensure that public safety radio systems are available at all times
  - Increase adoption of Project 25 (P25) standards statewide
  - Manage physical tower site and cyber security risks
  - Develop baseline inventory of existing State, regional and local communications infrastructure
- Training and Exercises –
  - Incorporate and promote the use of Communications Unit (COMU) resources into exercises and real-world events
  - Improve communications training of new and existing emergency personnel
  - Conduct exercises to test interoperable emergency communications throughout the State
  - Establish and maintain an interoperable communications system with neighboring States
- Usage –
  - Establish and maintain an interoperable communications system with neighboring States
  - Conduct events to test interoperable emergency communications throughout the State
- Outreach and Information Sharing –
  - Educate county judges and legislators on emergency communications
  - Provide education on emergency communications issues
- Life Cycle Funding –
  - Analyze AWIN infrastructure life cycle estimates and planning costs
  - Analyze broadband planning and implementation costs
  - Ensure the continuity of the interoperable communications program

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1. INTRODUCTION

The Arkansas Statewide Communication Interoperability Plan (SCIP) is a stakeholder-driven, multi-jurisdictional, and multi-disciplinary statewide strategic plan to enhance interoperable and emergency communications. The SCIP is a critical mid-range (three to five years) strategic planning tool to help Arkansas prioritize resources, strengthen governance, identify future investments, and address interoperability gaps. This document contains the following planning components:

- Introduction – Provides the context necessary to understand what the SCIP is and how it was developed.
- Purpose – Explains the purpose/function(s) of the SCIP in Arkansas.
- State's Interoperable and Emergency Communications Overview – Provides an overview of the State's current and future emergency communications environment and defines ownership of the SCIP.
- Vision and Mission – Articulates the State's three- to five-year vision and mission for improving emergency communications operability, interoperability, and continuity of communications at all levels of government.
- Strategic Goals and Initiatives – Outlines the strategic goals and initiatives aligned with the three- to five-year vision and mission of the SCIP and pertains to the following critical components: Governance, Standard Operating Procedures (SOPs), Technology, Training and Exercises, Usage, Outreach and Information Sharing, and Life Cycle Funding.
- Implementation – Describes the process to evaluate the success of the SCIP and to conduct SCIP reviews to ensure it is up-to-date and aligned with the changing internal and external environment.
- Reference Materials – Includes resources that provide additional background information on the SCIP or interoperable and emergency communications in Arkansas or directly support the SCIP.

Figure 1 provides additional information about how these components of the SCIP interrelate to develop a comprehensive plan for improving interoperable and emergency communications.

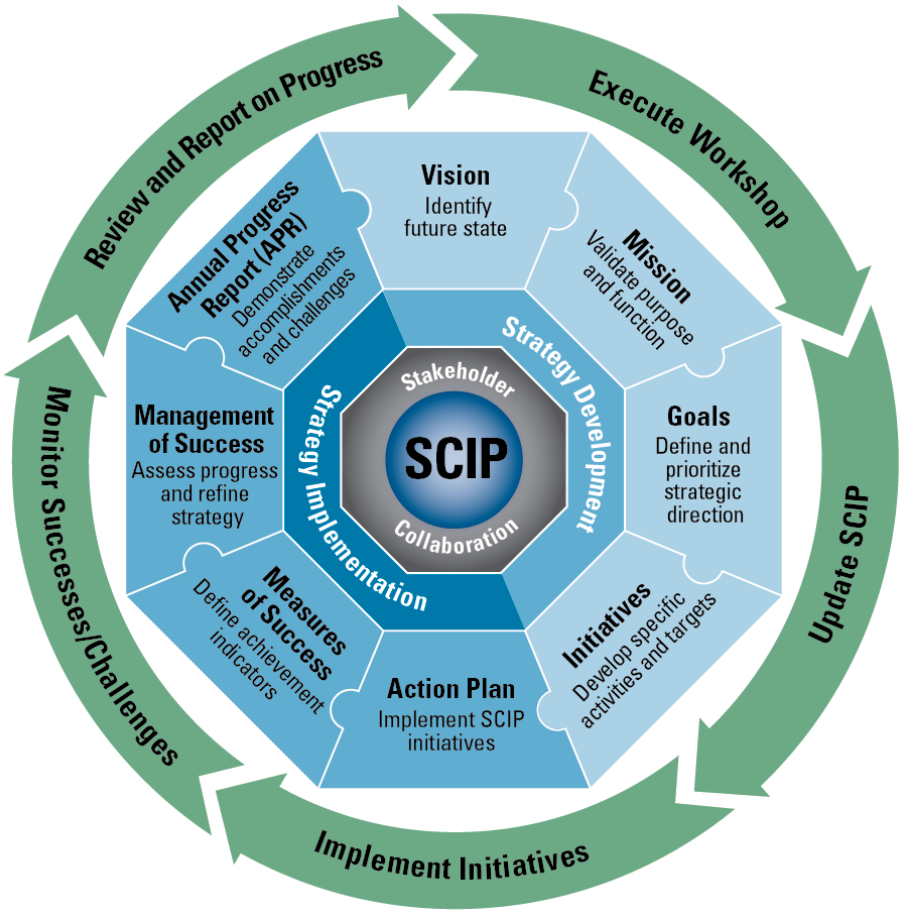

Figure 1: SCIP Strategic Plan and Implementation Components

The Arkansas SCIP is based on an understanding of the current and mid-range interoperable and emergency communications environment. Arkansas has taken significant steps toward enhancing interoperable and emergency communications, including:

- Continuing the statewide gateway project that provides interoperability gateways to most counties within the State as well as provides voice connectivity for the Arkansas Wireless Interoperability Network (AWIN) with existing systems operated by individual cities or counties;
- Establishing an engaged and accomplished working group to oversee policies for talkgroups and public safety broadband;
- Establishing a Rural Leadership Council (RLC) made up of field responders who assist the State on public safety broadband outreach; and
- Completing a statewide initiative to establish SOPs.

However, more remains to be done to achieve Arkansas's vision. It is also important to note that this work is part of a continuous cycle as Arkansas will always need to adapt to evolving technologies, operational tactics, and changes to key individuals (e.g., Governor, project champions). In the next three to five years, Arkansas will encounter

challenges relating to operability, interoperability, geography, aging equipment/systems, emerging technologies, changing project champions, and obtaining sustainable funding.

Wireless voice and data technology is evolving rapidly and efforts are underway to determine how to leverage these new technologies to meet the needs of public safety. For example, the enactment of the Middle Class Tax Relief and Job Creation Act of 2012 (the Act), specifically Title VI, related to Public Safety Communications, authorizes the deployment of the Nationwide Public Safety Broadband Network (NPSBN). The NPSBN is intended to be a wireless, interoperable nationwide communications network that will allow members of the public safety community to securely and reliably gain and share information with their counterparts in other locations and agencies. New policies and initiatives such as the NPSBN present additional changes and considerations for future planning efforts and require an informed strategic vision to properly account for these changes. Figure 2 illustrates a public safety communications evolution by describing the long-term transition toward a desired converged future.

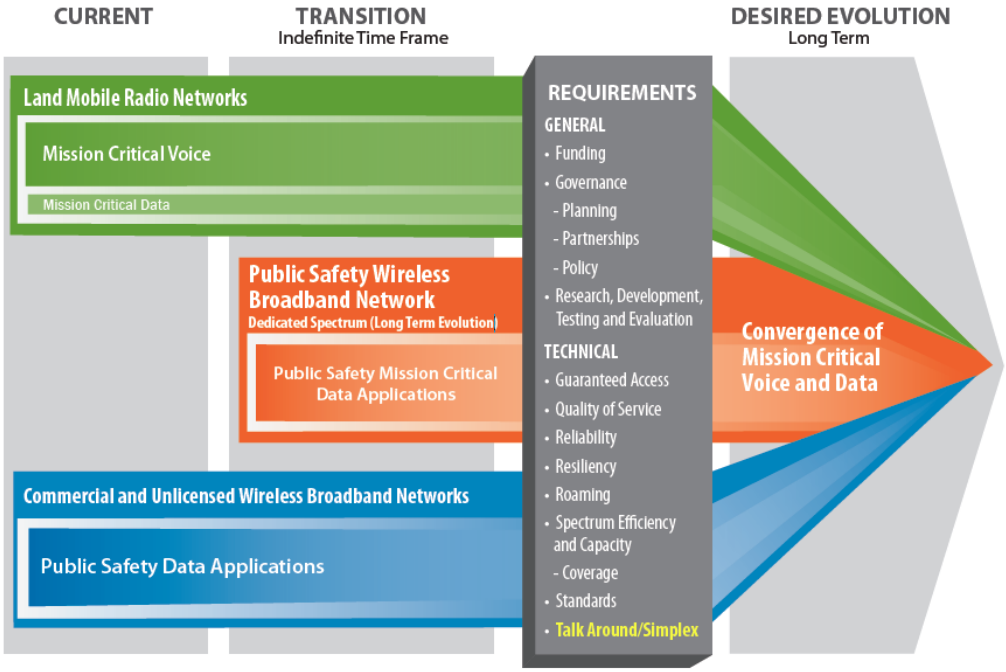

Figure 2: Public Safety Communications Evolution

Integrating capabilities such as broadband provide an unparalleled opportunity for the future of interoperable communications in Arkansas. It may result in a secure path for other information-sharing initiatives, Public Safety Answering Points (PSAP), and Next Generation 911 (NG911) integration. Broadband will not replace existing Land Mobile Radio (LMR) voice systems in the foreseeable future due to implementation factors associated with planning, deployment, technology, and cost. A cautious approach to this investment is needed. Therefore, robust requirements and innovative business practices must be developed for broadband initiatives prior to any implementation.

There is no defined timeline for the deployment of the NPSBN; however Arkansas will keep up-to-date with the planning and build-out of the NPSBN in the near and long

terms in coordination with the First Responder Network Authority (FirstNet). FirstNet is the independent authority within the National Telecommunications and Information Administration (NTIA) and is responsible for developing the NPSBN, which will be a single, nationwide, interoperable public safety broadband network. The network build-out will require continuing education and commitment at all levels of government and across public safety disciplines to document network requirements and identify existing resources and assets that could potentially be used in the build-out of the network. It will also be necessary to develop and maintain strategic partnerships with a variety of stakeholder agencies and organizations at the national, State, regional, local, and tribal levels and design effective policy and governance structures that address new and emerging interoperable and emergency communications technologies. During this process, investments in LMR will continue to be necessary and in the near term, wireless data systems or commercial broadband will continue to complement LMR. More information on the role of these two technologies in interoperable and emergency communications is available in the Department of Homeland Security (DHS) Office of Emergency Communications (OEC) Public Safety Communications Evolution brochure.[1]

In 2012, the Arkansas Interoperable Communications Committee (AICC) established a public safety broadband working group to discuss the technical aspects of public safety broadband and to ensure stakeholders remain engaged throughout upcoming projects. Arkansas has launched the RLC, which consists of "boots on the ground" users of public safety broadband. The group is multidisciplinary, and will advise the AICC on how broadband is used by first responders in the field.

Public safety broadband is a primary focus for Arkansas going forward; the State developed an initial strategy in 2012 and has completed most of its initiatives including OEC's Long Term Evolution (LTE) coverage analysis effort and FirstNet Consultation Prep workshop. Additional governance and outreach efforts will continue as the State and Local Interoperable Grant Program (SLIGP) is underway. The State's SLIGP Project Management Plan may be found in Appendix C to this document. The APSBN Outreach and Education Strategy and Implementation Plan may be found in Appendix D.

Additionally, achieving sustainable funding in the current fiscal climate is a priority for Arkansas. As State and Federal grant funding diminishes, States need to identify alternative funding sources to continue improving and maintaining interoperable and emergency voice and data communications systems. Key priorities for sustainable funding in Arkansas are:

- Identifying alternate sources of funding for planning, training, and exercising interoperable communications;
- Ensuring funding to address the current infrastructure's end of life (EOL);
- Obtaining capital funding to address upgrades to AWIN;
- Ensuring the operation and maintenance (O&M) budget for AWIN continues to be funded each year;

[1] OEC's Public Safety Communications Evolution brochure is available here: http://publicsafetytools.info/oec_guidance/docs/Public_Safety_Communications_Evolution_Brochure.pdf

- Explaining to leadership and elected officials the vision for interoperable and emergency communications and demonstrating the continuing need for sustainable funding.

More information on a typical emergency communications system life cycle, cost planning, and budgeting is available in OEC's System Life Cycle Planning Guide.[2]

The Interoperability Continuum, developed by SAFECOM and shown in Figure 3, serves as a framework to address all of these challenges and continue improving operable/interoperable and emergency communications. It is designed to assist emergency response agencies and policy makers with planning and implementing interoperability solutions for voice and data communications.

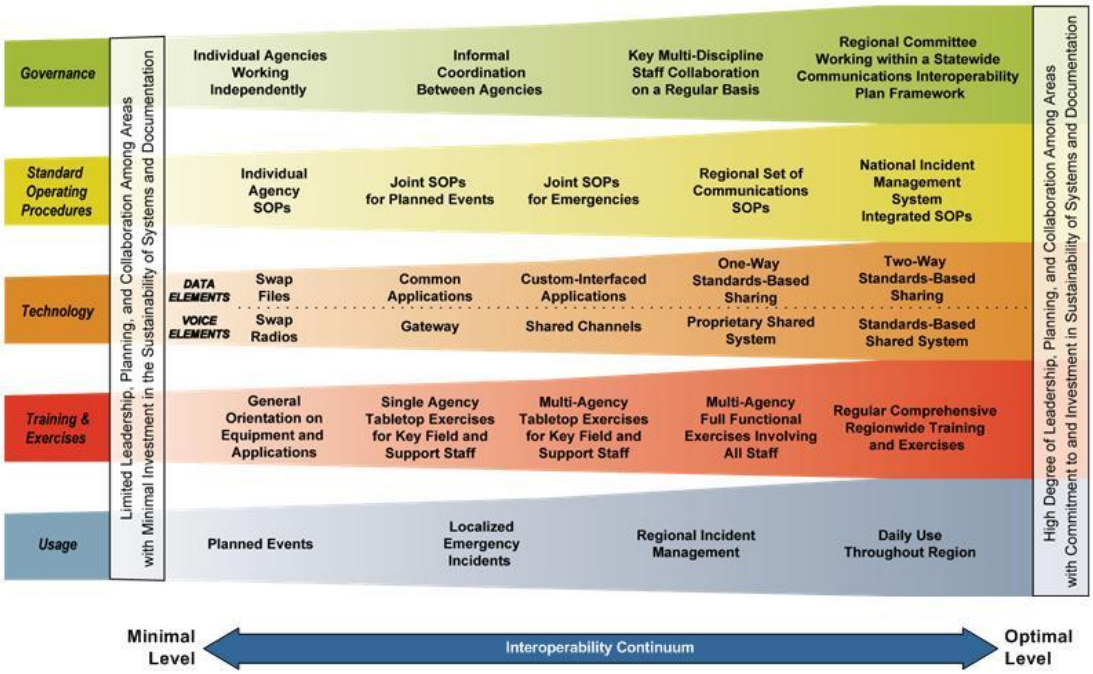

Figure 3: The Interoperability Continuum

The Continuum identifies five critical success elements that must be addressed to achieve a successful interoperable communications solution:

- Governance – Collaborative decision-making processes that support interoperability efforts to improve communication, coordination, and cooperation across disciplines and jurisdictions. Governance is the critical foundation of all of Arkansas's efforts to address communications interoperability.
- SOPs – Policies, repetitive practices, methods, and procedures that guide emergency responder interactions and the use of interoperable communications solutions.

[2] OEC's System Life Cycle Planning Guide is available here: http://publicsafetytools.info/oec_guidance/docs/OEC_System_Life_Cycle_Planning_Guide_Final.pdf

- Technology – Systems and equipment that enable emergency responders to share voice and data information efficiently, reliably, and securely.
- Training and Exercises – Scenario-based practices used to enhance communications interoperability and familiarize the public safety community with available resources, equipment, and procedures.
- Usage – Familiarity with interoperable communications resources and technologies, systems, and operating procedures used by first responders to enhance interoperability.

More information on the Interoperability Continuum is available in OEC's Interoperability Continuum brochure.[3] The following sections will further describe how the SCIP will be used in Arkansas and the State's plans to enhance interoperable and emergency communications.

2. PURPOSE

The purpose of the Arkansas SCIP is to:

- Provide the strategic direction and alignment for those responsible for interoperable and emergency communications at the State, regional, local, and tribal levels;
- Explain to local and State leadership and elected officials the vision for interoperable and emergency communications and demonstrate the need for funding;
- Serve as the operational blueprint for the conceptualization, procurement, implementation, and usage of interoperable communications by Arkansas's public safety agencies and nongovernmental/private organizations.

The development and execution of the SCIP assists Arkansas with addressing the results of the National Emergency Communications Plan (NECP) Goals and the Federal government with fulfilling the Presidential Policy Directive 8 (PPD-8)[4] National Preparedness Goal for Operational Communications.[5]

In addition to this SCIP, Arkansas will develop an Annual Progress Report (APR) that will be shared with OEC and other stakeholders to highlight recent accomplishments

[3] OEC's Interoperability Continuum is available here: http://www.safecomprogram.gov/oecguidancedocuments/continuum/Default.aspx

[4] PPD-8 was signed in 2011 and is comprised of six elements: a National Preparedness Goal, the National Preparedness System, National Planning Frameworks and Federal Interagency Operational Plan, an annual National Preparedness Report, and ongoing national efforts to build and sustain preparedness. PPD-8 defines a series of national preparedness elements and emphasizes the need for the whole community to work together to achieve the National Preparedness Goal. http://www.dhs.gov/presidential-policy-directive-8-national-preparedness.

[5] National Preparedness Goal – Mitigation and Response Mission Area Capabilities and Preliminary Targets – Operational Communications: Ensure the capacity for timely communications in support of security, situational awareness, and operations by any and all means available, among and between affected communities in the impact area and all response forces.

1. Ensure the capacity to communicate with the emergency response community and the affected populations and establish interoperable voice and data communications between Federal, State, and local first responders.
2. Re-establish sufficient communications infrastructure within the affected areas to support ongoing life-sustaining activities, provide basic human needs, and transition to recovery.(

and demonstrate progress toward achieving the goals and initiatives identified in the SCIP. More information on the SCIP APR is available in Section 6.4.

This SCIP is owned and primarily managed by the Statewide Interoperability Coordinator's (SWIC's) office and is assisted by the AICC and the Arkansas Interoperable Communications Executive Committee (AICEC). The AICEC has the authority to and is responsible for making decisions regarding this plan. The SWIC is responsible for ensuring this plan is implemented and maintained. To create the revised SCIP, a team of stakeholders participated in four planning calls with OEC in which they discussed policies and interoperable and emergency communications efforts within the State. Arkansas held a two day SCIP workshop in February 2014, in which participants drafted and revised the Arkansas SCIP based on feedback from stakeholders throughout the State. The SCIP was then reviewed by the AICC who submitted it to the AICEC for approval. The Arkansas SCIP was approved by the AICEC on May 10, 2014.

3. STATE'S INTEROPERABLE AND EMERGENCY COMMUNICATIONS OVERVIEW

The AICC is Arkansas's statewide interoperable governing body and is responsible for developing and maintaining the statewide strategic plan for interoperable communications while encouraging the participation of relevant local and State executives and political leaders in the decision making process. The AICC is overseen by the AICEC, which focuses on the coordination of communications systems throughout the State and its investment priorities. In addition, the AICEC advises the AICC on cross-border relations and broadband initiatives.

Arkansas is bordered by Louisiana, Mississippi, Missouri, Oklahoma, Tennessee, and Texas, and has established interoperability with Louisiana, Mississippi, and Oklahoma. In addition, Arkansas anticipates establishing interoperability with Tennessee, as Tennessee is installing a State communications system similar to AWIN. Arkansas plans to firmly establish cross-border interoperability with other neighboring States in the coming years.

Arkansas has made significant progress toward statewide interoperability with the expanded use of their statewide communication system, AWIN. The Project 25 (P25) compliant 700/800 megahertz (MHz) system was first deployed in 2004, leveraging the assets of the Arkansas State Police. AWIN provides a standards based platform to improve interoperability and compatibility for State and local agencies, and allows access to a tactical level of connectivity for every county's incident command structure.

The State has also taken steps to establish interoperability between the AWIN system and entities that maintain separate systems. Arkansas completed a statewide effort using interoperable bridging equipment in May of 2012 and allows State and local entities who are operating on their separate LMR systems connectivity to the State's AWIN system permitting interoperable communications with outside jurisdictional first responders in the event of a multi-jurisdictional or multi-disciplinary event.

4. VISION AND MISSION

The Vision and Mission section describes the Arkansas vision and mission for improving emergency communications operability, interoperability, and continuity of communications statewide.

Arkansas Interoperable and Emergency Communications Vision:

The State of Arkansas will lead the Nation in establishing the ability for public safety stakeholders, across disciplines and jurisdictions, to exchange information seamlessly, as authorized, on demand, and in real-time in order to protect lives and property.

Arkansas Interoperable and Emergency Communications Mission:

The Arkansas Interoperable Communications Committee (AICC) will work collaboratively with the emergency response community across disciplines, levels of government, jurisdictions (including bordering States) and organizations to achieve the Arkansas interoperability vision. To do this, the AICC will coordinate and provide resources to help the emergency response community pursue the goals, objectives and strategic initiatives in the Statewide Communication Interoperability Plan (SCIP).

5. STRATEGIC GOALS AND INITIATIVES

The Strategic Goals and Initiatives section describes the statewide goals and initiatives for delivering the vision for interoperable and emergency communications. The goals and initiatives are grouped into seven sections, including Governance, SOPs, Technology, Training and Exercises, Usage, Outreach and Information Sharing, and Life Cycle Funding.

5.1 Governance

The Governance section of the SCIP outlines the future direction of Arkansas's governance structure for interoperable and emergency communications. Interoperable and emergency communications-related governance is managed by the AICC which serves as the statewide interoperable governing body. The AICC provides oversight for the administration of the SCIP and guides the rollout of the initiatives and strategies to enhance Arkansas's interoperability resources. The AICC includes representatives of Federal, State, and local public safety agencies who represent a cross-section of emergency response disciplines, regions, and levels of government within the State.

The AICC meets monthly and as part of its work, reviews AWIN policies and applications for new users to join the State AWIN LMR network. The AICC is managed by the AICEC and both entities work together to ensure the SCIP is reviewed and updated annually. The AICEC also works to ensure that the AICC is comprised of first responders from all jurisdictions and disciplines. There are currently no mandates associated with the SCIP; however, several working groups were established to ensure the success of the AICC and interoperable communications in the state.

The Arkansas SCIP governance goals focus on continued engagement with local governments and their public safety agencies to:

- Ensure standardized statewide emergency communications efforts;
- Legislatively codify the AICC/AICEC;
- Collaborate with elected officials and public safety working groups to generate widespread knowledge of Arkansas's efforts in interoperable and emergency communications;
- Increase emphasis on readying the public safety community for FirstNet activities and the deployment of public safety grade broadband capabilities.

Arkansas will continue to leverage and where appropriate, establish AICC subcommittees and workgroups to increase education and outreach among the public safety community, as well as elected and appointed officials. The State also seeks to strengthen intra-State regional governance with the development of the RLC structures within the State's established regions to increase collaboration, planning, and coordination, specifically for public safety broadband. Table 1 outlines Arkansas's goals and initiatives related to governance.

Table 1: Governance Goals and Initiatives

Governance Goals and Initiatives				
Goal #	Goals	Initiatives	Owner	Completion Date
1.	Provide public safety personnel with the existing policies and procedures that guide the use of interoperable and emergency communications	1.1 Establish framework for policy and procedure development and review	AICC, AICEC, SWIC	February 2016
		1.2 Ensure all applicable policies and procedures are aligned with the SLIGP project		
		1.3 Ensure policies and procedures for interoperable and emergency communications (broadband, voice, data, etc.) exist and are reviewed periodically		
		1.4 Review and revise cyclical process for SOP development and deployment		

Governance Goals and Initiatives				
Goal #	Goals	Initiatives	Owner	Completion Date
2.	Align and coordinate SLIGP project activities with NPSBN requirements	2.1 Execute the SLIGP project management plan 2.2 Provide periodic performance reports as required by SLIGP grant guidance 2.3 Provide progress reports to State leadership as requested	State Point of Contact (SPOC), SWIC	June 2016
3.	Develop and utilize the RLC	3.1 Complete approval process for RLC charter 3.2 Meet periodically as established in the RLC charter 3.3 Provide direction and support to RLC members	AICEC,	June 2016
4.	Continue to ensure effective communication with elected officials	4.1 Develop tailored materials for elected officials 4.2 Hold town hall meeting in each emergency management area	AICC, Arkansas Department of Emergency Management (ADEM), SWIC, AICEC, RLC	January 2015
5.	Ensure the continuity of the interoperable communications program	5.1 Evaluate best path and approach to obtain Executive or Legislative codification for the AICEC 5.2 Establish formal authority for the AICEC 5.3 Develop transition plan to be used for onboarding new Executive Committee members.	AICEC	April 2015

5.2 Standard Operating Procedures (SOPs)

The SOPs section of the SCIP identifies the framework and processes for developing and managing SOPs statewide. In 2009, the AICC established a multi-discipline, multi-jurisdictional working group to pursue a State SOP initiative to develop a standardized template for all public safety entities to use when developing agency SOPs. All disciplines and regions provided input into the process and the AICC developed a standardized, communications-related SOP template with a review and approval process. Pilots were conducted and the Arkansas Department of Emergency Management (ADEM) rolled out the template statewide and continues to provide support to agencies during the completion process.

Arkansas public safety agencies continue to focus on developing and establishing SOPs for emergency communications operations, and there is a recent increase of non-public safety agencies using the standardized template. The AICC is responsible for reviewing and approving agencies' communications SOPs and ensuring they are adopted statewide. In addition, each entity that joins AWIN, a Memorandum of Understanding (MOU) is developed and executed between the State and entity. The MOU addresses items such as ownership and responsibilities for the AWIN infrastructure, utility cost responsibilities, maintenance demarcation, tower and shelter access and sharing, insurance requirements, and asset ownership. By requiring this signed MOU up front, the State establishes specific responsibilities for each agency, ensuring they are interoperable on AWIN and with other communications systems throughout the State.

Arkansas's SOP goals and initiatives focus on establishing SOPs statewide for interoperable communications assets and finalizing and publishing the Arkansas Field Operations Guide (FOG). Arkansas has embraced the National Incident Management System (NIMS) as the State standard for all incident management processes. ADEM is responsible for maintaining and promoting NIMS and the Incident Command System (ICS) compliance for all incidents. Table 2 outlines Arkansas's goals and initiatives for SOPs.

Table 2: Standard Operating Procedures Goals and Initiatives

Standard Operating Procedures Goals and Initiatives				
Goal #	Goals	Initiatives	Owner	Completion Date
6.	Establish a development process and develop a series of SOPs for the use of interoperability	6.1 Create an SOP for deploying emergency communications equipment	Emergency Support Function (ESF)-2 Department of Information Services (DIS)	June 2015
		6.2 Develop SOPs for large-scale special events		
		6.3 Involve cross-section of jurisdictions and disciplines		
		6.4 Ensure SOPs are promulgated and adopted		

Standard Operating Procedures Goals and Initiatives				
Goal #	Goals	Initiatives	Owner	Completion Date
		throughout the State		
7.	Publish the Arkansas FOG	7.1 Review and identify additional information that is needed for the completion of the Arkansas FOG	AICC Working Group	November 2014
		7.2 Finalize and publish the FOG		
		7.3 Distribute to stakeholders		

5.3 Technology

The Technology section of the SCIP outlines Arkansas's plan to maintain and upgrade existing technology; the roadmap to identify, develop, and implement new and emerging technology solutions; and the approach to survey and disseminate information on current and future technology solutions and their ability to meet stated user needs. The majority of Arkansas's public safety agencies operate on one statewide shared radio system, AWIN, which is a system with established partnerships between the Arkansas State Police, ADEM, and several cities and counties that contribute infrastructure resources. The radio system was originally designed to provide LMR frequency coverage throughout the State with emphasis placed on reception along interstates, highways, and roadways. Enhancements in the form of additional towers were made to the system in several areas throughout the State to improve portable coverage and increase capacity in areas that use AWIN as their primary radio system.

AWIN is a Motorola 700/800 MHz SmartZone 7.5, digital trunked P25 system that uses three zone controllers to manage trunking at 132 tower sites. Controllers are set up in triangular support configuration and are located in separate geographical areas to provide protection against catastrophic failures. Most AWIN tower sites support five repeaters including the control channel. In areas with higher volumes of radio traffic, the number of available repeaters is increased to 17 channels to support additional concurrent radio traffic capacity. AWIN has approximately 26,000 subscribers, primarily using Motorola equipment. There are 16 mutual aid talkgroups/channels designated as "MAC Call" and "MAC 1 – MAC 15" available for use statewide in the AWIN network. All AWIN users are required to have these mutual aid talkgroups/channels programmed in their radios.

Tower sites, dispatch centers, and master control sites are connected via a State-owned microwave backbone consisting of 132 tower sites. As part of the AWIN upgrade project, all of the State's analog data paths were upgraded to digital, allowing more efficient use of available bandwidth and support for multiplexing equipment. While AWIN has the capability to provide some limited non-broadband speed wireless data services,

it is not widely used or advertised due to limitations. Most wireless data users are using commercial broadband systems for public safety wireless data access; however, there are limits to commercial coverage in rural areas. The commercial systems' coverage operates best in urban environments and along major highways.

There are several State and local agencies that maintain separate and disparate radio systems that support varying levels of interoperability with AWIN. To ensure statewide interoperability, Arkansas used Public Safety Interoperable Communications (PSIC) grant funding to bridge these legacy systems with AWIN. PSIC funds were also used to fund a statewide satellite radio system that provides for backup communications in the event the AWIN system fails. In addition, Arkansas installed a master site at the State Emergency Operations Center, as well as a stand-by master site that can be activated in 8 to 24 hours in the event of a catastrophic failure. The State also recognizes that the AWIN, as well as other public safety communications infrastructures throughout Arkansas, are aging and fast approaching their end of life or becoming obsolete due to advances in technologies. To complicate matters, manufacturers are no longer supporting some of the existing systems or components, and the austere fiscal environment in the State makes it difficult to provide the necessary upgrades, technology refresh, or replacements of this aging infrastructure.

Arkansas's technology goals and initiatives focus on maintaining the highest levels of availability (uptime) and dependability of AWIN to ensure users have few interruptions, implementing public safety broadband, and enhancing the capability of the statewide microwave backbone. Table 3 outlines Arkansas's goals and initiatives for technology.

Table 3: Technology Goals and Initiatives

Technology Goals and Initiatives				
Goal #	Goals	Initiatives	Owner	Completion Date
8.	Continue to establish inter- and intra-State interoperability resources	8.1 Coordinate with Louisiana	AWIN, ADEM, SWIC	December 2017
		8.2 Coordinate with Mississippi		
		8.3 Coordinate with Oklahoma		
		8.4 Coordinate with Texas		
		8.5 Coordinate with Tennessee		
		8.6 Coordinate with Missouri		
		8.7 Draft standard MOU template to gain legal authority		
		8.8 Identify, acquire, and implement equipment as needed to establish interoperable operations with neighboring States		

Technology Goals and Initiatives				
Goal #	Goals	Initiatives	Owner	Completion Date
9.	Ensure future planning of infrastructure serves as dual purpose for AWIN and NPSBN	9.1 Align AWIN infrastructure planning to the Arkansas FirstNet Broadband Plan	AWIN, SWIC, SPOC	January 2019
		9.2 Identify opportunities for shared infrastructure		
		9.3 Identify which AWIN tower sites fall under the bond		
10.	Ensure that public safety radio systems are highly available at all times	10.1 Develop technology roadmaps	AICEC, AWIN, ADEM	January 2018
		10.2 Ensure that scheduled maintenance and testing on AWIN infrastructure and emergency power systems is performed		
		10.3 Identify opportunities for redundant communications paths		
		10.4 Provide continuity of operations via airborne repeaters		
		10.5 Identify funding resources for upgrading the AWIN system to achieve automatic fail-over		
11.	Increase adoption of P25 standards statewide	11.1 Conduct P25 educational awareness	SWIC, AICEC	August 2014
		11.2 Submit request for OEC Technical Assistance Service Offerings		
		11.3 Obtain educational materials from OEC and distribute to interested parties		
		11.4 Solicit OEC Regional Coordinator's participation in quarterly meetings		
12.	Manage physical tower site and cyber security risks	12.1 Assess and set parameters for physical site security	ADEM, AWIN, AICEC, State Cyber	May 2015
		12.2 Assess and set parameters for cybersecurity		

Technology Goals and Initiatives				
Goal #	Goals	Initiatives	Owner	Completion Date
		12.3 Address at AICC meeting	Security Office (SCSO)	
		12.4 Solicit participation from DHS Cybersecurity Regional Coordinator		
13.	Develop baseline inventory of existing State, regional, and local communications infrastructure	13.1 Train personnel in use of the Communications Asset Survey Mapping (CASM) Tool	ADEM, AWIN	January 2017
		13.2 Inventory assets from each tower site/facility into CASM		
		13.3 Use CASM to inform a technology baseline		

5.4 Training and Exercises

The Training and Exercises section of the SCIP explains Arkansas's approach to ensure that emergency responders are familiar with interoperable and emergency communications equipment and procedures and are better prepared for responding to real-world events. ADEM manages the training and exercise program for Arkansas's public safety community and hosts free communications-specific training throughout the year. It maintains a training and exercise schedule for required and elective courses that meet Federal guidelines and conforms specifically to the requirements of the Homeland Security Exercise and Evaluation Program (HSEEP). The exercises and related training sessions are typically multi-agency, multidiscipline in nature and include tabletop, functional, and full scale formats. As these exercises are multi-agency, multidiscipline events, the After Action Reports (AARs) and Improvement Plans help participating agencies identify interoperability and communications capability gaps that may need to be addressed in the next round of training courses, annual exercises and funding allocations.

The State currently conducts training for new users on equipment usage and operations on behalf of AWIN but other training opportunities are limited. Additional recurring training is needed for all agencies that might become involved in a multi-agency response situation (i.e., schools, hospitals, public works) and for all existing personnel, not solely new personnel. In addition, conducting communications-specific exercises has been a challenge in recent years; however, the State's ESF-2 group plans to actively participate in the National Level Exercise in July of 2014, testing interoperability across the State. In addition, the State wants to ensure that all public safety personnel understand and are able to use all functions of their communications equipment immediately and seamlessly with local and State counterparts and bordering States.

The AICC will host "interoperability rodeos" in which personnel from multi-jurisdictional, multi-discipline public safety agencies; nongovernmental organizations; and the private sector will come together to learn about each participating agency's roles and available resources used during normal operations and during disaster responses. These events will allow all agencies that may be involved in disaster response activities to come together and test equipment to ensure interoperable operations across the State.

Arkansas's training and exercise goals focus on establishing new and recurring communications training opportunities for public safety personnel statewide, incorporating Communications Unit (COMU) resources in all exercises and real-world events, and establishing an interoperable communications system with neighboring States. Table 4 outlines Arkansas's goals and initiatives for training and exercises.

Table 4: Training and Exercises Goals and Initiatives

Training and Exercises Goals and Initiatives				
Goal #	Goals	Initiatives	Owner	Completion Date
14.	Incorporate and promote the use of COMU resources into exercises and real-world events	14.1 Provide training on available communications and interoperability resources and their capabilities	ADEM, SWIC	March 2015 Ongoing
		14.2 Provide outreach on the process for requesting COMU resources		
		14.3 Provide COMU briefings/workshops at State and local conferences and to emergency management, law enforcement, and fire/emergency medical services (EMS) departments		
		14.4 Conduct town hall meetings		
		14.5 Work with counterparts at the National Guard to provide COMU briefings		
		14.6 Conduct meetings with judges about interoperable and emergency communications		
15.	Improve communications training of new and existing emergency	15.1 Create a pool of trainers	SWIC, ADEM	June 2015
		15.2 Utilize AWIN website for training on proper radio communications and		

Training and Exercises Goals and Initiatives				
Goal #	Goals	Initiatives	Owner	Completion Date
	personnel	etiquette		
		15.3 Encourage Fire and Police Chiefs Associations, EMS, PSAPs and Emergency Management Agencies to incorporate initial and recurring training into their training academy curriculum		
		15.4 Increase awareness of plain language policy and reinforce NIMS requirements		
16.	Conduct exercises to test interoperable emergency communications throughout the State	16.1 Promote participation of county, State and Federal agencies in requirements testing exercises	ADEM, ESF-2, AICC	July 2015
		16.2 Prepare communications plan (requirements testing)		
		16.3 Execute exercise		
		16.4 Draft After Action Report (AAR)		
		16.5 Evaluate AAR		
		16.6 Adjust and amend communications exercise plan(s)		
17.	Establish and maintain an interoperable communications system with neighboring States	17.1 Promote participation of county, State and Federal agencies in inter-state exercises	ADEM, ESF-2, AICC	December 2017
		17.2 Prepare communications plan (requirements testing)		
		17.3 Execute exercise		
		17.4 Draft AAR		
		17.5 Evaluate AAR		
		17.6 Adjust and amend communications plan		

5.5 Usage

The Usage section of the SCIP outlines efforts to ensure responders adopt and familiarize themselves with interoperable and emergency communications technologies, systems, and operating procedures in the State. Regular usage ensures the maintenance and establishment of interoperability in case of an event or major incident that may benefit from increased interoperability between responders. Arkansas recognizes the value that routine, day-to-day usage of interoperability networks brings to public safety practitioners whose level of familiarity with the systems, networks, and equipment encourages consistency of application and standardization of response. Many local jurisdictions in Arkansas use various interoperability systems on a routine basis; however, the usage of AWIN subscriber units and interoperability resources by non-AWIN agencies is infrequent and occurs only during large-scale emergencies. Proper operational usage of available statewide mutual-aid/interoperability resources continues to remain a challenge, especially during larger multi-jurisdictional incidents.

In terms of regional interoperable and emergency communications efforts, Arkansas actively collaborates with neighboring States, through established interoperable communications capabilities that create gateway connections between talkgroups and systems along State border areas. New partners continue joining the AWIN periodically and the State anticipates that many if not all disparate systems may eventually link into the AWIN to provide enhanced interoperability resources. While individual agencies regularly test equipment and systems for technical and operational issues, no scheduled tests are conducted to identify and resolve issues on seldom-used interoperability resources operated by different organizations.

Arkansas is committed to ensuring that all practitioners are trained, exercise, and use available interoperability equipment and SOPs to the greatest extent possible. The State currently trains all users of its statewide AWIN system on using subscriber units. This training includes State and local agencies that use AWIN as their primary system. It also includes counties and State agencies that have been given AWIN subscriber units in an effort to achieve command-level interoperability. Every county in Arkansas has been provided this command-level capability. During the next five years, the AICC will perform radio checks and exercises with all users of AWIN equipment regularly. In addition, the AICC will collaborate with ADEM to organize and conduct exercises focused on AWIN, its command and control procedures, and usage systems training throughout the State annually.

Arkansas also requires every county to maintain an emergency operations plan (EOP) that includes an annex for interoperable emergency communications. County EOPs are tested routinely and regular communications equipment checks are performed to ensure successful usage and interoperability with neighboring jurisdictions. The State intends to host communications events statewide in which local, State, and Federal representatives will test their EOPs and learn the roles and resources of each agency during a disaster.

Arkansas's usage goals and initiatives focus on establishing, maintaining, and using an interoperable communications system with neighboring States while also arranging

events or using real world planned events to further test interoperability in Arkansas. Table 5 outlines Arkansas's goals and initiatives for usage.

Table 5: Usage Goals and Initiatives

Usage Goals and Initiatives				
Goal #	Goals	Initiatives	Owner	Completion Date
18.	Establish and maintain an interoperable communications system with neighboring States	18.1 Establish a schedule for systematic testing	ADEM	June 2018
		18.2 Compile results and include in quarterly reports		
19.	Conduct events to test interoperable emergency communications throughout the State	19.1 Conduct "interoperability rodeo" for proof of concept of interoperable emergency communications resources	AICC, SWIC, ADEM, ESF-2	July 2015
		19.2 Determine annual event (such as Amateur Radio Field Day – last full weekend in June) for proof of concept of long-range interoperable emergency communications		
		19.3 Prepare communications plan (requirements testing)		
		19.4 Execute exercise		
		19.5 Draft AAR		
		19.6 Evaluate AAR		
		19.7 Adjust and amend communications plan		

5.6 Outreach and Information Sharing

The Outreach and Information Sharing section of the SCIP outlines Arkansas's approach for building a coalition of individuals and emergency response organizations to support the SCIP vision and promote common emergency communications initiatives statewide. One of the primary objectives of the AICC is building and maintain relationships with local, regional, State, and Federal public safety agencies. Each year, the AICC hosts an annual interoperability conference in which more than two hundred public safety stakeholders attend to learn about emerging technologies and methods for

improving interoperability statewide. The Arkansas SWIC's office makes every effort to be available to participants and occasionally hosts conference sessions where best practices and lessons learned in interoperable and emergency communications are discussed.

In addition, the SWIC and the AICC engage public safety stakeholders throughout the State through a myriad of educational outreach projects:

- Each quarter, the AICC publishes a newsletter regarding interoperable and emergency communications efforts throughout the State;
- Members of the AICC conduct town-hall meetings in the fall and spring in local communities across the State;
- AICC participates in conferences hosted by other public safety organizations and occasionally conducts conference sessions focusing on the importance of interoperability throughout the State and regions;
- Members of the AICC and the AICEC conduct regular meetings with executive and legislative government leaders to ensure they are knowledgeable of interoperable and emergency communications; and
- Members of AICC are readily available to provide support to AWIN users.

Moreover, with the new focus upon the development of the NPSBN, Arkansas will begin providing information about the NPSBN and FirstNet to local communities while also determining local and State needs and requirements for a successful build-out. Arkansas's outreach and information sharing goals focus on providing educational awareness to local, State, and regional public safety agencies; county judges; legislators; and elected officials. This outreach is to ensure that government leaders have a comprehensive understanding of the importance of LMR, broadband, the NPSBN, AWIN, and interoperable emergency communications to the public safety mission in Arkansas. It is fundamentally important that these leaders also recognize the necessity of sustainable State funding to support all of these critical communications resources. Table 6 outlines Arkansas's goals and initiatives for outreach and information sharing.

Table 6: Outreach and Information Sharing Goals and Initiatives

Outreach and Information Sharing Goals and Initiatives				
Goal #	Goals	Initiatives	Owner	Completion Date
20.	Educate county judges and legislators on interoperable emergency communications	20.1 Utilize existing relationships with ADEM and AWIN 20.2 Conduct initial and recurring briefings for county judges and legislators (inform of concepts, technology, needs, challenges, etc.)	AICEC, SPOC	December 2016

Outreach and Information Sharing Goals and Initiatives				
Goal #	Goals	Initiatives	Owner	Completion Date
		20.3 Share with local emergency communications personnel through State conferences		
21.	Provide education on emergency communications issues	21.1 Develop and/or acquire materials that may be used as needed for varying jurisdictions and communities to ensure consistent messaging	SWIC DIS AICEC	December 2017
		21.2 Provide materials via AWIN website or the APSBN website		
		21.3 Provide one page briefings (white papers) on SCIP, management plan, broadband, etc.		
		21.4 Effectively communicate the differences between public safety grade and commercial grades of equipment and services in education materials		

5.7 Life Cycle Funding

The Life Cycle Funding section of the SCIP outlines Arkansas's plan to fund existing and future interoperable and emergency communications priorities. Arkansas recognizes the funding challenges associated with the elimination or significant reduction in available grant programs. As a result, the State is working to identify ongoing and alternative funding sources to support the statewide interoperability efforts which remain a priority. Arkansas's interoperable and emergency communications funding comes from a general improvement fund from the State's budget that provides for the operation and maintenance of AWIN. This funding is not available for additional equipment purchases, upgrades or a technology refresh and the current communications infrastructure is fast approaching its end of life.

In addition to the general improvement fund, Arkansas issued bonds to pay for some of AWIN's initial infrastructure and the State remains focused on reducing this debt service. The State discussed the possibility of establishing user fees to operate on AWIN; however, a recent study found that the State has no way of charging user fees until the previously issued bonds are paid in full. Funding for PSAPs in Arkansas comes directly from wireline funds in which 85% of the funding goes to PSAPs in local

jurisdictions and the remaining 15% to the Emergency Telephone Services Board. The State also received approximately $3 million in stimulus funds to assist with the continued development of 911 dispatch centers throughout the State and their emergency communications efforts. Recently, Arkansas established the Blue Ribbon Task Force to assist in researching and securing funding opportunities throughout the State. The AICEC intends to collaborate with the task force to locate funding for interoperable and emergency communications efforts.

Arkansas's funding goals focus on identifying and obtaining additional funding streams to address AWIN infrastructure end of life issues, upgrades, and continued funding for the O&M budget. Table 7 outlines Arkansas's goals and initiatives for life cycle funding.

Table 7: Life Cycle Funding Goals and Initiatives

Life Cycle Funding Goals and Initiatives				
Goal #	Goals	Initiatives	Owner	Completion Date
22.	Analyze AWIN infrastructure life cycle estimates and planning costs	22.1 Review and revise annually	AWIN, AICEC	December 2018
		22.2 Ensure leadership understands risks associated with aging infrastructure and costs thereof		
		22.3 Project incremental costs of taking on new users as local radio systems also "age out"		
		22.4 Explore Maintenance Plan options		
		22.5 Explore options for infrastructure growth		
23.	Analyze broadband planning and implementation costs	23.1 Review and revise annually	SPOC, AICEC	January 2016
		23.2 Develop a strategy that addresses: User Fees from FirstNet, Costs to the State for equipment acquisition, training, and equipment refresh.		
24	Ensure the continuity of the interoperable communications program	24.1 Research and analyze alternative funding opportunities	AICEC	April 2015
		24.2 Secure sustainable funding		

6. IMPLEMENTATION

6.1 Action Plan

The Action Plan section of the SCIP describes the process Arkansas will use to determine a plan to execute the initiatives in the SCIP. Arkansas plans to use its quarterly AICC meetings to work closely with the various working groups and committees assigned specific SCIP goals and initiatives to determine progress. As a result, monthly reporting to the AICEC by relevant stakeholders, through the SWIC office, on their assigned goals and initiatives is anticipated throughout the year to ensure success of these efforts. Each AICC working group will be assigned ownership of their respective subsection of the SCIP to complete the identified goals and initiatives.

Each year, the AICC produces an Annual Report that demonstrates Arkansas's achievements and challenges in public safety communications interoperability. This report will contain updates on the goals and initiatives of the SCIP and will be submitted to the Arkansas legislature and responsible committees.

6.2 Measures of Success

The Measures of Success section of the SCIP defines the measures that Arkansas will use to monitor progress and indicate accomplishments toward achieving the vision for interoperable and emergency communications. Measures of success are used to meaningfully assess the outcomes and impacts of program functions and processes in meeting the identified strategic goals and initiatives. Table 8 outlines these measures for Arkansas. More information on how these measures are managed is included in Section 6.3.

Table 8: SCIP Measures of Success

Measures of Success					
Goal #	Strategic Goal(s) Supported	Initial State	Target Measurement	Measure Completion Date	Owner or Source
1.	Provide public safety personnel with the existing policies and procedures that guide the use of interoperable and emergency communications	80% of identified policies and procedures have been documented	Policies and procedures distributed to public safety communication users	February 2016	AICEC
2.	Align and coordinate SLIGP project activities with NPSBN requirements	Current SLIGP project activities align with known NPSBN requirements	All SLIGP project activities continue to align with known NPSBN requirements	Ongoing	AICEC

Measures of Success					
Goal #	Strategic Goal(s) Supported	Initial State	Target Measurement	Measure Completion Date	Owner or Source
3.	Develop and utilize the RLC	RLC is established and charter drafted	RLC meets regularly and serves as information conduit for PSB activities	June 2016	AICEC
4.	Continue to ensure effective communication with elected officials	Currently have numerous white papers that can be used to brief elected officials	Town hall meetings conducted and additional materials developed as needed	January 2015	AICEC, ADEM, SWIC, AICEC, RLC
5.	Ensure the continuity of the interoperable communications program	Executive or Legislative codification does not exist	AICEC has formal authority	April 2015	AICEC
6.	Establish a development process and develop a series of SOPs for the use of interoperability	Limited SOPs have been created under ESF-2	100% of SOPs identified in the SCIP have been completed	June 2015	AICEC, ESF-2, DIS
7.	Publish the Arkansas FOG	75% complete	FOG 100% complete and distributed	November 2014	AICEC Working Group
8.	Continue to establish inter- and intra-State interoperability resources	20% complete	100% complete	December 2017	AWIN, ADEM, SWIC
9.	Ensure future planning of infrastructure serves as dual purpose for AWIN and NPSBN	10% complete	Future tower sites can accommodate both AWIN and NPSBN	January 2019	AWIN, SWIC, SPOC

Measures of Success					
Goal #	Strategic Goal(s) Supported	Initial State	Target Measurement	Measure Completion Date	Owner or Source
10.	Ensure that public safety radio systems are highly available at all times	Highly available	Highly available and incorporates redundant system components	January 2018	AICEC, AWIN, ADEM
11.	Increase adoption of P25 standards statewide	Minimal adoption of P25 standards	Creation of State-centric white paper to be used and provided to public safety officials at EM conferences	August 2014	SWIC, AICEC
12.	Manage physical tower site and cyber security risks	Currently monitor for physical tower site and cybersecurity risks	Options are explored to increase security to tower areas and make recommendations	May 2015	ADEM, AWIN, AICEC, SCSO
13.	Develop baseline inventory of existing State, regional and local communications infrastructure	80% of AWIN tower information has been entered into CASM	80% of all State, regional and local communications infrastructure has been entered into CASM	January 2017	ADEM, AWIN
14.	Incorporate and promote the use of COMU resources into exercises and real-world events	COMU resources are used occasionally	COMU resources are used for 80% of the State level exercises and real-world events annually	March 2014 Ongoing	ADEM, SWIC
15.	Improve communications training of new and existing emergency personnel	Four trainers exist for emergency communications	16 trainers are available to deliver training for emergency communications	June 2015	SWIC, ADEM
16.	Conduct exercises to test interoperable emergency communications throughout the State	Limited communications-specific exercises have been conducted	Communications-specific exercises are conducted annually throughout the State	July 2015	ADEM, ESF-2, AICC

Measures of Success					
Goal #	Strategic Goal(s) Supported	Initial State	Target Measurement	Measure Completion Date	Owner or Source
17.	Establish and maintain an interoperable communications system with neighboring States	20% complete	Interoperable communications is established with 100% of neighboring States	December 2017	ADEM, ESF-2, AICC
18.	Establish and maintain an interoperable communications system with neighboring States	Interoperable communications are tested monthly with MS, TN and MO	Interoperable communications are tested monthly with all States, including TX, LA and OK	June 2018	ADEM
19.	Conduct events to test interoperable emergency communications throughout the State	Limited number of events use interoperable communications	Interoperable Communications is tested at 3 events annually	June 2015	AICC, SWIC, ADEM, ESF-2
20.	Educate county judges and legislators on interoperable emergency communications	Currently have a library of white papers that can be used to brief elected officials	Additional materials developed as needed and briefings delivered as requested	December 2016	AICEC, SPOC
21.	Provide education on emergency communications issues	Currently have a library of white papers that can be used to brief public safety stakeholders and other interested parties	Targeted materials developed as needed and briefings delivered in town hall meetings and via the web	December 2017	SWIC, DIS, AICEC
22.	Analyze AWIN infrastructure life cycle estimates and planning costs	Currently have an estimate that needs to be refreshed	Full assessment of life cycle cost which has been validated by a third party	December 2018	AWIN, AICEC

Measures of Success					
Goal #	Strategic Goal(s) Supported	Initial State	Target Measurement	Measure Completion Date	Owner or Source
23.	Analyze broadband planning and implementation costs	Tracking and monitoring spending against the SLIGP budget	Budget for planning is not exceeded	January 2016	SPOC
24.	Ensure the continuity of the interoperable communications program	Funding comes from general revenue funds	There is a sustainable and dedicated funding source obtained	April 2015	AICEC

6.3 Management of Success

The Management of Success section describes the iterative, repeatable method Arkansas will follow to add, update and refine the measures of success. The AICC will review the SCIP annually during its quarterly meeting in November and as part of the Action Planning process, the SWIC will monitor the progress of the goals and initiatives monthly. The SWIC will post goal and initiative updates on the AWIN website each quarter. AICC members will use the annual November meeting to specifically compare goal and initiative accomplishments to the measures of success to determine status, share best practices, obtain further support for initiative challenges, and update relevant sections of the SCIP. Upon final review, the updated SCIP will be distributed to stakeholders throughout the State as well as published on the AWIN website.

6.4 Strategic Plan Review

The Strategic Plan Review section outlines the process Arkansas will use to conduct future reviews of the SCIP. The AICC and its associated working groups will provide an annual review of the SCIP in November (as noted in Section 6.3), to ensure it is up to date and aligned with the changing internal and external interoperable and emergency communications environment. As part of this process, the SWIC will also track and report progress against the defined initiatives and measures of success based upon feedback from goal and initiative assignments. Once the annual review is complete, the updated SCIP is provided to the AICEC for approval and dissemination. If elements of the SCIP are not being addressed according to planned timelines, the SWIC shall make recommendations to the AICC to adjust the priority of goals and initiatives and what resources should be focused upon these adjusted priorities moving forward.

7. REFERENCE MATERIALS

The Reference Materials section outlines resources that contribute additional background information on the SCIP and interoperable and emergency communications in Arkansas. Table 9 includes the links to these reference materials.

Table 9: SCIP Reference Materials

Title	Description	Source/Location
2009 SCIP	Previously submitted SCIP	2009 Arkansas SCIP
2012 SCIP Implementation Report	Annual progress report on interoperable and emergency communications	2012 SCIP Implementation Report
2011 SCIP Implementation Report	Annual progress report from 2011	2011 SCIP Implementation Report
2012 SCIP Workshop Report	Overview of 2012 workshop	2012 SCIP Workshop Report Summary
SLIGP Documentation	Arkansas's SLIGP Proposal	

APPENDIX A: MAJOR SYSTEMS

Table A-1: Major Systems, Updates, and New Systems

Major Systems Information						
System Type	System Name	System Owner(s)	System Description	# Subscribers and Agencies	Users' Level of Government	Status and Changes/Updates
Shared Statewide System	Arkansas Wireless Interoperability Network (AWIN)	Arkansas Interoperability Communications Committee (AICC)	700/800MHz P25 Compliant Motorola Digital Trunked Other: __limited encryption____ Voice *132*	*26,000*	State, Local, Federal. Some limited private use.	Existing System

APPENDIX B: LIST OF ACRONYMS

AAR	After Action Report
ADEM	Arkansas Department of Emergency Management
AICC	Arkansas Interoperable Communications Committee
AICEC	Arkansas Interoperable Communications Executive Committee
APR	Annual Progress Report
APSBN	Arkansas Public Safety Broadband Network
ARSky	Arkansas Satellite Radio System
AUXCOMM	Auxiliary Communications
AWIN	Arkansas Wireless Interoperability Network
CASM	Communications Asset Survey Mapping
COML	Communications Unit Leader
COMT	Communications Unit Technician
COMU	Communications Unit
DHS	U.S. Department of Homeland Security
DIS	Department of Information Services
EMA	Emergency Management Agency
EOL	Long Term Evolution
EOP	Emergency Operations Plan
ESF	Emergency Support Function
FCC	Federal Communications Commission
FirstNet	First Responder Network Authority
FOG	Field Operations Guide
HSEEP	Homeland Security Exercise and Evaluation Program
IP	Internet Protocol
LTE	Long Term Evolution
MHz	Megahertz
LMR	Land Mobile Radio
MOA	Memorandum of Agreement
MOU	Memorandum of Understanding
NCSWIC	National Council of Statewide Interoperability Coordinators

NECP	National Emergency Communications Plan
NG911	Next Generation 911
NIMS	National Incident Management System
NPSBN	Nationwide Public Safety Broadband Network
NRF	National Response Framework
NTIA	National Telecommunications and Information Administration
OEC	Office of Emergency Communications
O&M	Operations and Maintenance
PIO	Public Information Officer
PPD	Presidential Policy Directive
PSAP	Public Safety Answering Point
PSIC	Public Safety Interoperable Communications
P25	Project 25
RECCWG	Regional Emergency Communications Coordination Working Group
RIC	Regional Interoperability Council
RLC	Rural Leadership Council
RPC	Regional Planning Committee
SAA	State Administering Agency
SCIP	Statewide Communication Interoperability Plan
SCSO	State Cyber Security Office
SIEC	Statewide Interoperability Executive Committee
SIGB	Statewide Interoperability Governing Body
SLIGP	State and Local Implementation Grant Program
SOP	Standard Operating Procedure
SPOC	State Point of Contact
SWIC	Statewide Interoperability Coordinator
TICP	Tactical Interoperable Communications Plan
VHF	Very High Frequency
UHF	Ultra High Frequency